

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 January 2006 (26.01.2006)

PCT

(10) International Publication Number
WO 2006/009358 A1

(51) International Patent Classification: **H05B 3/20**

(21) International Application Number:
PCT/KR2005/002175

(22) International Filing Date: 7 July 2005 (07.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2004-0055745 16 July 2004 (16.07.2004) KR

(71) Applicant (for all designated States except US): KOSN
CO., LTD. [KR/KR]; 159-101, Sangdol-Dong, Dong-
jak-Gu, seoul 156-836 (KR).

(71) Applicant and

(72) Inventor: SONG, Jae Il [KR/KR]; 1807-1403, #1090, Il-
san-Dong, Ilsan-Gu, Gyeonggi-City, Gyeonggi-DO 411-737
(KR).

(74) Agent: JUNG, jong chan; 204-737, DongmunGoodmorn-
inghill, #1322, Baekseok-Dong, Ilsan-Gu, Gyeonggi-City,
Gyeonggi-Do 410-817 (KR).

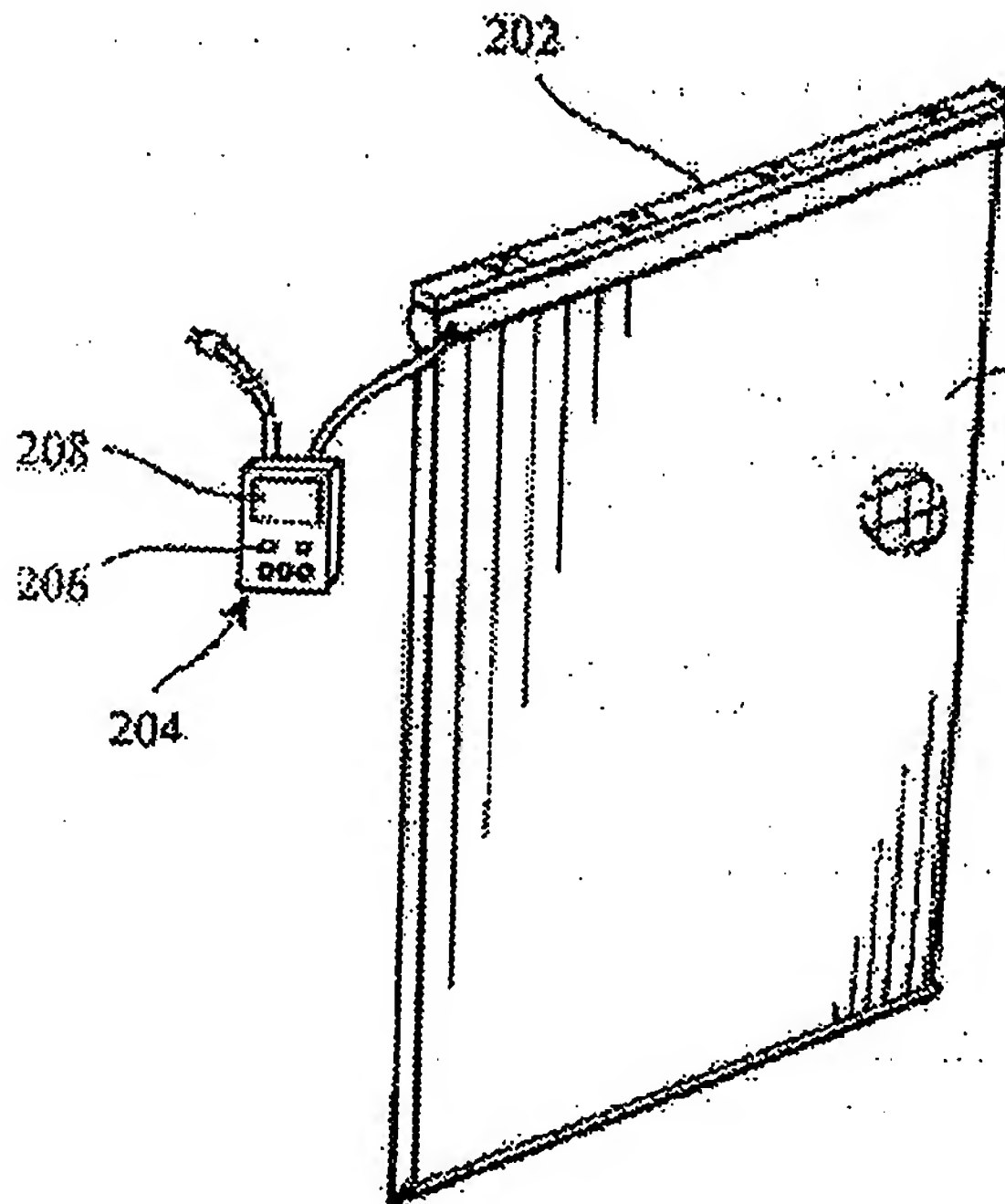
(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published: **with international search report**

[Continued on next page]

(54) Title: SURFACE TYPE HEATING ELEMENT AND ROLL SCREEN TYPE HOME SAUNA APPARATUS USING THE
SAME



(57) Abstract: Disclosed herein
are a surface type heating element
and a roll screen type home
sauna apparatus. The surface
type heating element includes
rayon-based carbon yarn emitting
resistance heat, metal yarn having
an antibacterial/anti-fungal
function, and transparent synthetic
resin film serving to admit
sufficient illumination, wherein
the rayon-based carbon yarn, the
metallic yarn, and the transparent
synthetic resin film are laid adjacent
to each other, and are interwoven
with polyester yarn. Further, a
radiation coating layer, containing
the mixture of ore powder and far
infrared radiating material is applied
to a surface of the heating element,
and the heat blocking coating layer
is applied to the other surface of the
heating element. Upper portions of
strands of the rayon-based carbon
yarn are connected to a power
supply line, and lower portions of
strands of the rayon-based carbon
yarn are connected via a common
connection part.

WO 2006/009358 A1

BEST AVAILABLE COPY

WO 2006/009358 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY